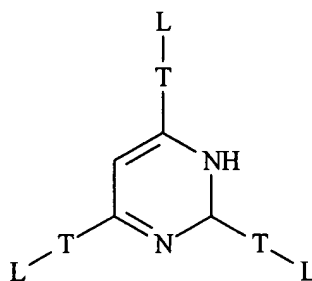
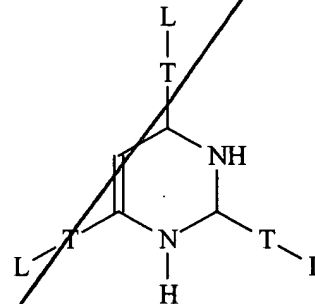


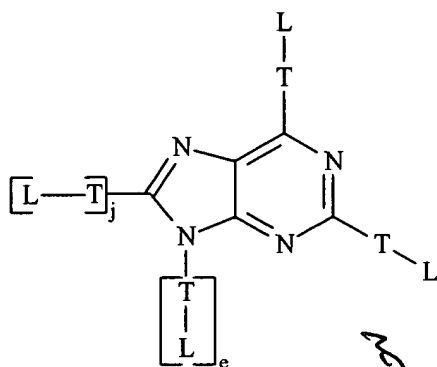
I



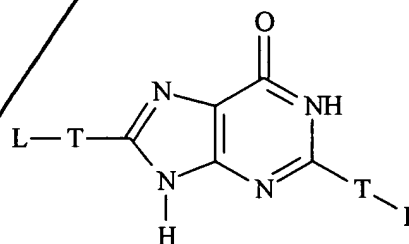
II



III



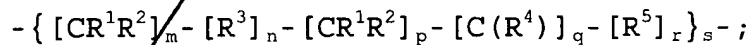
IV



V

wherein for structures I, II and III:

each T is a single bond or a group having the formula:



each  $R^1$ ,  $R^2$  and  $R^6$  is, independently, H, alkyl having 1 to about 10 carbon atoms, haloalkyl having 1 to about 10 carbon atoms, alkenyl having 2 to about 10 carbon atoms, alkynyl having 2 to about 10 carbon atoms or aryl having 6 to about 14 carbon atoms;

each  $R^3$  and  $R^5$  is, independently, a single bond,  $CH=CH$ , an alkyne having 2 carbon atoms, O, S,  $NR^6$ ,  $SO_2$ ,  $C_6-C_{14}$  aryl, substituted  $C_6-C_{14}$  aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle, a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group consisting of hydroxyl, alkyl, alkenyl, alkynyl, alkoxy, benzyl, phenyl, aryl, nitro, thiol, thioalkoxy and halo, provided that  $R^3$  and  $R^5$  are not morpholino;

each  $R^4$  is  $=O$ ,  $=S$  or  $=NR^6$ ;

each m, n, p and r is, independently, zero to 5;

each q is zero to 1;

each s is 1 to 10; and

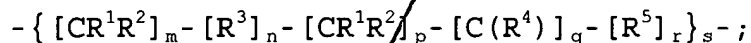
each L is, independently,  $C_1-C_{10}$  alkyl, substituted  $C_1-C_{10}$  alkyl,  $C_2-C_{10}$  alkenyl, substituted  $C_2-C_{10}$  alkenyl,  $C_2-C_{10}$  alkynyl, substituted  $C_2-C_{10}$  alkynyl,  $C_4-C_7$  carbocyclic alkyl, substituted  $C_4-C_7$  carbocyclic alkyl,  $C_4-C_{10}$  alkenyl carbocyclic, substituted  $C_4-C_{10}$  alkenyl carbocyclic,  $C_4-C_{10}$  alkynyl carbocyclic, substituted  $C_4-C_{10}$  alkynyl carbocyclic, a nitrogen, oxygen or sulfur containing saturated heterocycle, a substituted nitrogen, oxygen or sulfur containing saturated heterocycle, a benzo-fused heterocycle, a substituted benzo-fused heterocycle, a mixed heterocycle, or a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group consisting of alkyl, alkenyl,

alkynyl, aryl, hydroxyl, alkoxy, benzyl, nitro, thiol, thioalkyl, thioalkoxy and halo; or L is, independently, piperazine, pyridazine, pyrazine, triazine, phthalimido, an ether having 2 to 10 carbon atoms and 1 to 4 oxygen or sulfur atoms, a metal coordination group, a conjugate group, halogen, hydroxyl, thiol, keto, carboxyl,  $\text{NR}^1\text{R}^2$ ,  $\text{CONR}^1$ , amidine, guanidine, glutamyl, nitro, nitrate, nitrile, trifluoromethyl, trifluoromethoxy, NH-alkyl, N-dialkyl, O-aralkyl, S-aralkyl, NH-aralkyl, azido, hydrazino, hydroxylamino, sulfoxide, sulfone, sulfide, disulfide, silyl, a nucleosidic base, an amino acid side chain, a carbohydrate, a drug or a group capable of hydrogen bonding;

and for structures IV and V:

each j and e is 0 or 1, with the sum of j and e equal to 1;

each T is a single bond or a group having the formula:



each  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^6$  is, independently, H, alkyl having 1 to about 10 carbon atoms, haloalkyl having 1 to about 10 carbon atoms, alkenyl having 2 to about 10 carbon atoms, alkynyl having 2 to about 10 carbon atoms or aryl having 6 to about 14 carbon atoms;

each  $\text{R}^3$  and  $\text{R}^5$  is, independently, a single bond,  $\text{CH}=\text{CH}$ , an alkyne having 2 carbon atoms, O, S,  $\text{NR}^6$ ,  $\text{SO}_2$ ,  $\text{C}_6\text{-C}_{14}$  aryl, substituted  $\text{C}_6\text{-C}_{14}$  aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle, a substituted mixed heterocycle; wherein each of the

substituent groups is selected from a group consisting of hydroxyl, alkyl, alkenyl, alkynyl, alkoxy, benzyl, phenyl, aryl, nitro, thiol, thioalkoxy and halo, provided that  $R^3$  and  $R^5$  are not morpholino;

each  $R^4$  is =O, =S or =NR<sup>6</sup>;

each m, n, p and r is, independently, zero to 5;

each q is zero to 1;

each s is 1 to 10; and

each L is, independently, C<sub>1</sub>-C<sub>10</sub> alkyl, substituted C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, substituted C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, substituted C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>4</sub>-C<sub>7</sub> carbocyclic alkyl, substituted C<sub>4</sub>-C<sub>7</sub> carbocyclic alkyl, C<sub>4</sub>-C<sub>10</sub> alkenyl carbocyclic, substituted C<sub>4</sub>-C<sub>10</sub> alkenyl carbocyclic, C<sub>4</sub>-C<sub>10</sub> alkynyl carbocyclic, substituted C<sub>4</sub>-C<sub>10</sub> alkynyl carbocyclic, C<sub>6</sub>-C<sub>14</sub> aryl, substituted C<sub>6</sub>-C<sub>14</sub> aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle, or a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group consisting of alkyl, alkenyl, alkynyl, aryl, hydroxyl, alkoxy, benzyl, nitro, thiol, thioalkyl, thioalkoxy and halo; or L is, independently, phthalimido, an ether having 2 to 10 carbon atoms and 1 to 4 oxygen or sulfur atoms, a metal coordination group, a conjugate group, halogen, hydroxyl, thiol, keto, carboxyl, NR<sup>1</sup>R<sup>2</sup>, CONR<sup>1</sup>, amidine, guanidine, glutamyl, nitro, nitrate, nitrile, trifluoromethyl, trifluoromethoxy, NH-alkyl, N-dialkyl, O-aralkyl,

*22*  
*AI*  
S-aralkyl, NH-aralkyl, azido, hydrazino, hydroxylamino, sulfoxide, sulfone, sulfide, disulfide, silyl, a nucleosidic base, an amino acid side chain, a carbohydrate, <sup>3</sup>a drug or a group capable of hydrogen bonding.

*ADD*  
*B'7*  
In claims 2-8, 12-15 and 19, please delete "claim 1" and insert --claim 31-- therefor.

Please amend claims 16-18 and 24-26 as follows.

*fail to limit*  
16. The mixture of claim [1] <sup>32</sup>~~31~~ wherein [said process comprises the blocking and deblocking of] at least one of said functionalizable [atom] atoms of said heterocyclic scaffold[.] is blocked and subsequently deblocked.

*11/20/12?*  
17. The mixture of claim [1] <sup>32</sup>~~31~~ wherein at least some of said chemical compounds are subsequently [reacted with a further reactant] further substituted with a chemical substituent.

*11/20/12?*  
18. The mixture of claim 17 wherein [said further reactant reacts with] the heterocyclic portion of [the] said chemical compounds is further substituted with a chemical substituent.

*Don't*  
24. The mixture of claim [20] <sup>33</sup>~~31~~ wherein said mixture exhibits sensible antibacterial effect. *intended use*